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#### **REMARKS**

The present response is intended to be fully responsive to all points of objection and/or rejection raised by the Office Action and is believed to place the application in condition for allowance. Favorable reconsideration and allowance of the application are respectfully requested.

Applicants assert that the present invention is new, non-obvious and useful. Prompt consideration and allowance of the claims are respectfully requested.

#### **Status of Claims**

Claims 1-3, 5, 12, 14, 15, and 19-27 are pending in the application. Claims 1-3, 5-12, 14-15, and 19-26 have been amended.

Claims 4, 13 and 16-18 have been canceled without prejudice or disclaimer. In making this cancellation without prejudice, Applicants reserve all rights in these claims to file divisional and/or continuation patent applications.

Applicants respectfully assert that the amendments to the claims add no new matter.

#### **Allowable Subject Matter**

In the Office Action, the Examiner stated that claims 13-18 and 21 are objected to as being dependent upon a rejected base claim but would be allowable if rewritten in independent form including all the limitations of the base claim and any intervening claims.

Independent claims 1, 11 and 23 have been amended to incorporate allowable subject matter as identified by the Office Action.

It is respectfully submitted that the claims, as amended, are in condition for allowance.

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### 35 U.S.C. § 102 Rejections

The Office Action rejected claim 1 under 35 U.S.C. § 102(b), as being anticipated by Bar-David et al. (US Patent 5,623,511) and further rejected claims 11-12, 19-20 and 23-24 under 35 U.S.C. § 102(e), as being anticipated by Kim et al. (US Patent 6,151,487). Applicant believes these rejections have been overcome by the amendments made above in view of the remarks that follow

The Office Action stated that the prior art of record fail to anticipate or render obvious the following recited features: a second filter having a programmable frequency response, operably coupled to an output of the buffer and to an input of the programmable convolver.

Regarding independent claims 1, 11 and 23, Applicant respectfully asserts that claims 1, 11 and 23 have been amended to include the subject matter that the Office Action deemed as allowable.

Accordingly, Applicants respectfully assert that amended independent claims 1, 11 and 23 are allowable. Claims 12, 19-20 and 24 depend, directly or indirectly, from claims 11 and 23, and therefore include all the limitations of those claims. Therefore, Applicants respectfully assert that claims 12, 19-20 and 24 are likewise allowable. Accordingly, Applicants respectfully request that the Examiner withdraw the rejections of amended independent claims 1, 11 and 23, as well as the rejections of dependent claims 12, 19-20 and 24.

### 35 U.S.C. § 103 Rejections

The Office Action rejected claims 2 and 5-10 under 35 U.S.C. § 103(a) as being unpatentable over Bar-David et al. (US Patent 5,623,511) in view of Dent (US Patent 6,404,821). Additionally, the Office Action rejected claims 3-4 under 35 U.S.C. § 103(a), as being unpatentable over Bar-David et al. (US Patent 5,623,511) in view of Dent (US Patent 6,404,821) and further in view of Mori et al. (US Patent 5,347,537). The Office Action also rejected claims 20 and 22 under 35 U.S.C. § 103(a), as being unpatentable over Kim et al. (US Patent 6,151,487) in view of Bar-David et al. (US Patent 5,623,511). Further, the Office Action rejected claims 25-27 under 35 U.S.C. § 103(a), as being unpatentable over Kim et al. (US Patent 6,151,487) in view of Boesch et al. (US Patent 6,100,827). Finally, the Office

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Action rejected claim 27 under 35 U.S.C. § 103(a) as being unpatentable over Kim et al. (US Patent 6,151,487) in view of Boesch et al. (US Patent 6,100,827) and further in view of Mori et al. (US Patent 5,347,537).

Claim 4 has been canceled without prejudice or disclaimer.

Furthermore, Applicants note that claim 2, 3, 5-10 depend from amended independent claim 1, that each of claims 12, 14, 15 and 19-22 depends, directly or indirectly, from amended independent claim 11, and that each of claims 24-27 depend, directly or indirectly, from amended independent claims 23. Accordingly, in addition to any independent bases for patentability, Applicants respectfully submit that claims 2, 3, 5-10 12, 14, 15, 19-22 and 24-27 are similarly patentable over the cited references by virtue of at least such dependency.

Furthermore, Applicants note that each one of the above cited references is not cited in the Office Action as curing and does not, in fact, cure the deficiencies identified above in other cited reference. In this regard, without conceding the appropriateness of the combination of one reference with one or more other references, or the characterization of such references vis-a-vis claims 2, 3, 5-10 12, 14, 15, 19-22 and 24-27, Applicants respectfully submit that all the combination of the above cited references fail to teach or fairly suggest the subject matter claimed in claims 2, 3, 5-10 12, 14, 15, 19-22 and 24-27.

Accordingly, Applicants respectfully request that the rejection of claims 2, 3, 5-10 12, 14, 15, 19-22 and 24-27 under 35 U.S.C. § 103(a) be withdrawn.

#### **Conclusion**

In view of the foregoing amendments and remarks, the pending claims are deemed to be allowable. Their favorable reconsideration and allowance is respectfully requested.

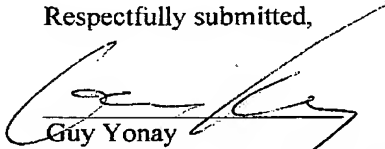
This Amendment is intended to place the present application in condition for allowance, based on allowable subject matter as identified by the Examiner. Since this Office Action was made final, if the Examiner believes that the application is still not in condition for allowance, Applicants respectfully request that the Examiner issue an Advisory Action, to allow the Applicant the opportunity of curing any residual defects and/or advising the Applicants of a need to file a Request for Continued Examination.

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Should the Examiner have any question or comment as to the form, content or entry of this Amendment, the Examiner is requested to contact the undersigned at the telephone number below. Similarly, if there are any further issues yet to be resolved to advance the prosecution of this application to issue, the Examiner is requested to telephone the undersigned counsel.

Please charge any fees associated with this paper to deposit account No. 50-3355.

Respectfully submitted,

  
Guy Yonay  
Attorney/Agent for Applicant(s)  
Registration No. 52,388

Dated: December 12, 2005

**Pearl Cohen Zedek Latzer, LLP**  
10 Rockefeller Plaza, Suite 1001  
New York, New York 10020  
Tel: (212) 632-3480  
Fax: (212) 632-3489